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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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HEXA Pre-design Chimera RNAi

Catalog # : H00003073-R01

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens hexosaminidase A (alpha polypeptide) (HEXA), mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_000520

Storage Instruction: Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.

Note: Position of the Chimera RNAi.



Application Image

RNAi Knockdown

Publication Reference

- dsCheck: highly sensitive off-target search software for double-stranded RNA-mediated RNA interference.
Naito Y, Yamada T, Matsumiya T, Ui-Tei K, Saigo K, Morishita S. *Nucleic Acids Res.* 2005 Jul 1;33(Web Server issue):W589-91.
- Functional dissection of siRNA sequence by systematic DNA substitution: modified siRNA with a DNA seed arm is a powerful tool for mammalian gene silencing with significantly reduced off-target effect.
Ui-Tei K, Naito Y, Zenno S, Nishi K, Yamato K, Takahashi F, Juni A, Saigo K. *Nucleic Acids Res.* 2008 Apr;36(7):2136-51. Epub 2008 Feb 11.
- Guidelines for the selection of highly effective siRNA sequences for mammalian and chick RNA interference.
Ui-Tei K, Naito Y, Takahashi F, Haraguchi T, Ohki-Hamazaki H, Juni A, Ueda R, Saigo K. *Nucleic Acids Res.* 2004 Feb 9;32(3):936-48. Print 2004.
- siDirect: highly effective, target-specific siRNA design software for mammalian RNA interference.
Naito Y, Yamada T, Ui-Tei K, Morishita S, Saigo K. *Nucleic Acids Res.* 2004 Jul 1;32(Web Server issue):W124-9.

Applications

RNAi Knockdown

Gene Information

Entrez GeneID: [3073](#)

Gene Name: HEXA

Gene Alias: MGC99608, TSD

Gene hexosaminidase A (alpha polypeptide)

Description:

Omim ID: [272800](#), [606869](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene encodes the alpha subunit of the lysosomal enzyme beta-hexosaminidase that, together with the cofactor GM2 activator protein, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Beta-hexosaminidase is composed of two subunits, alpha and beta, which are encoded by separate genes. Both beta-hexosaminidase alpha and beta subunits are members of family 20 of glycosyl hydrolases. Mutations in the alpha or beta subunit genes lead to an accumulation of GM2 ganglioside in neurons and neurodegenerative disorders termed the GM2 gangliosidoses. Alpha subunit gene mutations lead to Tay-Sachs disease (GM2-gangliosidosis type I). [provided by RefSeq]

Other Designations: GM2 gangliosidosis,N-acetyl-beta-glucosaminidase,Tay Sachs disease,beta-N-acetylhexosaminidase,hexosaminidase A

Gene Pathway

[Amino sugar and nucleotide sugar metabolism](#) [Glycosaminoglycan degradation](#)

[Glycosphingolipid biosynthesis - ganglio series](#)

[Glycosphingolipid biosynthesis - globo series](#) [Lysosome](#) [Metabolic pathways](#)

[Other glycan degradation](#)

Related Disease

[Genetic Predisposition to Disease](#) [Sandhoff Disease](#) [Tay-Sachs Disease](#)

[Tay-Sachs disease](#)

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